



Member of the FM Global Group

FM Approvals  
1151 Boston Providence Turnpike  
P.O. Box 9102 Norwood, MA 02062 USA  
T: 781 762 4300 F: 781-762-9375 www.fmapprovals.com

# CERTIFICATE OF COMPLIANCE

## HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

### **AMlabcdefg-h. Valve Position Monitor.**

IS\* / I, II, III / 1 / ABCDEFG / T5\*\* Ta\*\*\* = -18°C to +50°C – 105157, 105159; Entity\*\*\*\*; FISCO\*\*\*\*, NI / I / 2 / ABCD / T5\*\* Ta\*\*\* = -18°C to +50°C – 105159, 105162, 105163; NIFW\*\*\*\*; DIP / II, III / 2 / FG / T5\*\* Ta\*\*\* = -18°C to +50°C; Type 4, 4X, 6

\* *Intrinsically Safe only when a = 44, 93.*

\*\* *When a = 92, 96 or 97, T4A*

\*\*\* *When b = 1A, 2A, 3A, 4A, 5A or 6A, Ta = -10°C to +60°C*

\*\*\*\* *When h = T, Ta = -40°C to +80°C*

\*\*\*\*\* *Entity Parameters when a = 44, Ui = 16 Vdc, li = 25 mA, Pi = 1.0W, Ci = 4.4nF, Li = 0mH.*

\*\*\*\*\* *Entity Parameters when b = 1E, 2E, 3E, 4E, 5E or 6E, Ui = 28 Vdc, li = 120 mA, Pi = 1.0W, Ci = 0, Li = 0.*

\*\*\*\*\* *FISCO Parameters only when a = 93, Ui = 30Vdc, li = 380 mA, Pi = 5.32W, Ci = 0, Li = 0.*

\*\*\*\*\* *NIFW Parameters only when a = 93 Ui = 30 Vdc, li = 380 mA, Pi = 5.32W, Ci = 0, Li = 0.*

\*\*\*\*\* *NIFW Parameters only when a = 96 or 97, Ui = 37 Vdc, li = 150 mA, Pi = 3.0W, Ci = 0, Li = 0mH.*

a = Function 33, 44, 92, 93, 94, 95, 96, or 97.

b = Solenoid 11, 1A, 1B, 1D, 1E, 1H, 2A, 2B, 2D, 2E, 2H, 3A, 3B, 3D, 3E, 3H, 4A, 4B, 4D, 4E, 4H, 5A, 5B, 5D, 5E, 5H, 6A, 6B, 6D, 6E or 6H.

c = Enclosure A.

d = Junction 02, 05, 10, 11, 13, 15, 17, 18, 19, 30 or 21.

e = Capabilities S.

f = Visual Indication X, G, R, 1, or 2.

g = Branding A or M.

h = Options T or up to 5 Alpha and/or Numeric Digits for Special and Marketing Identification.

Note: Options digits do not affect the integrity of the enclosure, the electrical safety or the title marking of the product.

### Equipment Ratings:

Intrinsically Safe with Entity Parameters and FISCO Parameters for use in Class I, Division 1, Group A, B, C, and D, T5 Ta = 80°C, Intrinsically Safe with Entity Parameters and FISCO Parameters for use in Class II, III, Division 1, Group E, F, and G, Nonincendive for use in Class I, Division 2, Group A, B, C, D T5 Ta = 80°C, Dust-Ignitionproof for use in Class II, III, Division 2, Group F and G; Type 4X Hazardous Indoor and Outdoor Locations.



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**AMI96abcDde-f. Valve Position Monitor.**

NI / I / 2 / ABCD / T6 Ta\* = -18°C to +50°C; DIP / II, III / 2 / FG / Ta\* = -18°C to +50°C; Type 4, 4X, 6

\*When  $f = T$ , Ta = -40°C to +75°C

a = Solenoid 11, 1D, 2D, 3D, 4D, 5D, or 6D.

b = Enclosure A.

c = Junction 02, 05, 10, 11, 13, 15, 17, 18, 19, 30 or 21.

d = Visual Indication X, G, R, 1, or 2.

e = Branding A or M.

f = Options T or up to 5 Alpha and/or Numeric Digits for Special and Marketing Identification.

Note: Options digits do not affect the integrity of the enclosure, the electrical safety or the title marking of the product.

**Equipment Ratings:**

Nonincendive for use in Class I, Division 2, Groups A, B, C, D; Dust Ignition Protected for Class II, III, Division 2, Groups F, G; -40°C ≤ Ta ≤ 75°C; Indoor and Outdoor, Type 4, 4X, 6 Hazardous Locations.

FM Approved for:

StoneL Corp.  
Fergus Falls, MN 56537



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This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

C22.2 NO. 0-M91	2006
C22.2 NO. 157	1992
C22.2 NO. 213	2008
C22.2 NO. 142	1990
CAN/CSA-E60079-0	2002
CAN/CSA-E60079-11	2002
CAN/CSA-E60079-15	2002
C22.2 NO. 1010.1	2009
C22.2 NO. 94-M91	2011

Original Project ID: 3026085C

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Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
060912	September 25, 2006		
061115	December 14, 2006		
070427	August 23, 2007		
3045098	November 15, 2012		
3045098-R1	November 27, 2012		
3047559	February 28, 2013		

FM Approvals LLC

J.E. Marquedant  
Group Manager, Electrical

28 February 2013

Date